Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2005	5SIDL08.4H4A	8.4	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies Engine	el Injection, Turbocharg e Control Module and Si	er, Charge Air Cooler, moke Puff Limiter	Tractor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			Į.	EXHAUST (g/kw-l	nr)		O	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 < KW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT			5.7	0.8	0.13	14	5	44

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this _________

Allen Lyons, Chief

Mobile Source Operations Division

day of March 2005.

Engine Model Summary Form

W-R-050-0005

Manufacturer: Sisu Diesel Inc.

Engine category: Nonroad Cl

EPA Engine Family: 5SIDL08.4H4A

Mfr Family Name: 84 ETA

Process Code: New Submission

todo	2 Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Hate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torqu	8.Fuel Rate: 9.Emission Control ibs/hr)@peak torque Device Per SAE J1930
r.Engline Coco		020@0000	145	106.3	1023@1500	187	93.5	DDE WECM SPC
84.40/	84.200 E17	C13 & E200		400.7	1000@1500	180	0.06	[/ /ECM
84.401	84,268 ETA	269@2000	-C-	100.7	2001 @ 2001	2		C
84 404	84.285 ETA	296@2200	151	110.7	923@1500	169	84.5	ECM
84 406	84 290 FTA	279@2200	142	104.1	892@1500	162	81.0	ECM
04.400	84 280 ETA	268@2200	137	100.5	846@1500	154	77.0	ECM
64.403	04.000 1.17	000000000000000000000000000000000000000	159	116.6	1000@1400	180	84.0	ECM
84.402	84.263 ETA	230@2700	COT	101 9	923@1400	168	78.4	ECM
84.403	84.284 ETA	256 @ 2000	601	2 1		CHT	78.0	₩.
84.400	84.271 ETA	276@2200	140	102./	0001 @ 028	٦C	2 1	
84.410	84 272 ETA	241@2200	123	90.6	746@1500	139	8.69	ECM
84 411	84.329 ETA	292@2200	150	110.0	915@1500	167	83.5	ECM